

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Reichert et al.

Serial No.: Not yet assigned

Filed: October 10, 2001

For: INTEGRATED OPTIC WAVEGUIDE
IMMUNOSENSOR

Examiner: Unknown

Group Art Unit: Unknown

Attorney Docket No.: 2455.3US

NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: EL740536666US

Date of Deposit with USPS: October 10, 2001

Person making Deposit: Daniel Thatcher

2
D.7
H
10/22/01
D

INFORMATION DISCLOSURE STATEMENT

Box PATENT APPLICATION
Commissioner for Patents
Washington, D.C. 20231

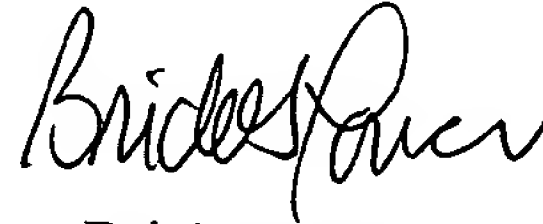
Sir:

The present application is a continuation of application Serial No. 09/412,731, filed October 5, 1999, pending, which is a continuation of application Serial No. 08/961,827, filed October 31, 1997, now U.S. Patent 5,961,924, which is a continuation of application Serial No. 08/393,450, filed on February 23, 1995, now U.S. Patent 5,814,565.

Pursuant to M.P.E.P. 2001.06(b), the Examiner is respectfully requested to consider the information of record in the prior applications, and to confirm in the first Office Action on the merits that such art has in fact been reviewed. A PTO-1449 form listing all of the information of record in the prior applications is enclosed herewith. Applicant has recently become aware of patent 5,822,472 which was not filed in the original patent and is therefore enclosed for your consideration.

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. 1.17(p) is required.

Respectfully submitted,



Brick G. Power
Registration No. 38,581
Attorney for Applicants
TRASKBRITT, PC
P. O. Box 2550
Salt Lake City, Utah 84110-2550
Telephone: (801) 532-1922

Date: October 10, 2001
BGP/jml:djp
Enclosure: Form PTO-1449

N:\0274.02\2455.3\lds.wpd

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
2455.3USApplication Number
Not yet assigned

Applicant Reichert et al.

Filing Date October 10, 2001

Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,934,061	01/20/76	Keck & Schultz			
	3,939,350	02/17/76	Kronick et al.			
	4,166,105	08/28/79	Hirschfeld			
	4,264,766	04/28/81	Fischer			
	4,815,843	03/28/89	Tiefenthaler et al.			
	4,857,273	08/15/89	Stewart			
	4,880,752	11/14/89	Keck			
	4,909,990	03/20/90	Block et al.			
	5,006,333	04/09/91	Seifer et al.			
	5,006,716	04/09/91	Hall			
	5,043,278	08/27/91	Nagaoka et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	WO 88/10418	12/29/88	PCT				
	2,220,083	12/28/89	GB				
	9,001,166	02/08/90	PCT				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

		<u>Applied Spectroscopy 42</u> : 68-72, J.T. Ives and W.M. Reichert, 1988
		"Total internal reflection fluorescence surface sensors", Ives, Reichert, Lin, Hlady, Reinecke, Suci, VanWagenen, Newby, Herron, Dryden and Andrade, <u>Optical Fiber Sensors</u> , pp. 391-396, eds. A.N. Chester et al., 1987 (M. Nijhoff, publ.)
		"Integrated optical waveguide attenuated total reflection spectrometry and resonance Raman spectroscopy of adsorbed cytochrome c", D.S. Walker, H.W. Hellings, S.S. Saavedra, and W.M. Reichert, <u>J. Phys. Chem.</u> 97: 10217-10222 (1993)
		"Corning 7059, silicon oxynitride, and silicon dioxide thin-film integrated optical waveguides: in search of low loss, nonfluorescent, reusable glass waveguides", D.S. Walker, W.M. Reichert, and C.J. Berry, <u>Applied Spectroscopy 46</u> : 1437-1441 (1992)

EXAMINER.

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

 09/973557
 10/10/01

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
2455.3USApplication Number
Not yet assignedApplicant **Reichert et al.**Filing Date **October 10,
2001**Group Art Unit **Unknown**
U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,081,012	01/14/92	Flanagan			
	5,166,515	11/24/92	Attridge			
	5,192,502	03/09/93	Attridge			
	5,248,620	09/28/93	Sluka et al.			
	5,344,784	09/06/94	Attridge			
	5,589,136	12/1996	Northrup et al.			
	5,814,565	09/29/98	Reichert et al.			
	5,822,472	10/13/98	Danielzik et al.			
	5,846,708	12/1998	Hollis et al.			
	5,959,292	09/28/99	Duveneck et al.			
	Re. 33,064	09/19/89	Carter			
	Re. 34,394	09/28/93	Bunting			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	9,006,503	06/14/90	PCT				
	9,113,339	09/05/91	PCT				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

		Lee, Jin Ho; Kopecek, J. and Andrade, J.D., "Protein-resistant surfaces prepared by PEO-containing block copolymer surfactants", Journal of Biomedical Materials Research, Published by John Wiley & Sons, pg. 351-368 (1989)
		Carlsson, J.; Drevin, K. and Axen, R., "Protein Thiolation and Reversible Protein-Protein Conjugation, Biochem J. (1978) 173, 723-737, Printed in Great Britain.
		Choquette, Steven J., et al., "Planar Waveguide Immunosensor with Fluorescent Liposome Amplification," <u>Analytical Chemistry</u> , 64(1):55-60, January 1, 1992.
		Fattinger, Ch., et al., "The Difference Interferometer: A Highly Sensitive Optical Probe for Quantification of Molecular Surface Concentration," <u>Biosensors & Bioelectronics</u> , 8:99-107, 1993.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)
2455.3US

Application Number
Not yet assigned

Applicant Reichert et al.

Filing Date Oct b r 10,
2001

Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Ho, Z.Z., et al., "Large Area Waveguide Sensor for Multiple Analytes Detection," SPIE, 2136:344-351, 1994.

Huber, W., et al., "Direct Optical Immunosensing (Sensitivity and Selectivity)," Sensors and Actuators, B.6:122-126, 1992.

Discovery Technologies AG, Third-Party Observation, August 25, 1999.

D.K.W. Lam, "Low temperature plasma chemical vapor deposition of silicon oxynitride thin-film waveguides", Applied Optics, 23(16):2744-46, August 15, 1984.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.